"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

S/262/62/000/009/004/017
I007/I207

AUTHOR: Matveyev, V. V.

TITLE: Test stand for investigating turbine-blade vibrations damped due to energy dissipation in the blade-locking keys

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk. 42. Silovyye ustanovki, no. 9, 1962, 22, abstract 42.9.142. "Collection nauchn. tr. aspirantov. Kievsk. politekhn. in-ta" Kiev. 1961, 123-132

TEXT: Test equipment for investigating experimentally the energy dissipation of vibrating turbine-blades in blade locking-keys at working temperatures is described. The unit is equipped with a stationary turbine-disc simulating-element representing a sleeve rigidly connected to the standard and provided with a groove for fastening the locking-key. The tip of the blade model is loaded with a magnetic-steel counter weight, alternately attracted by one of the two electromagnets. This arrangement causes the blades to vibrate at a given frequency and amplitude. The blade model is heated in an induction furnace. The centrifugal force is simulated by the expansion of the tip of the blade model, caused by a long steel-strip. During vibration of the blade, the bending of this steel strip prevents almost all damping. To increase accuracy and improve test conditions, vibrations of the second shape are induced in the tip of the blade model. Energy dissipation is determined from the logarithmic decrement of vibration damping. There are 3 figures.

[Abstracter's note: Complete translation.]

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S/115/61/000/010/003/005
E198/E135

AUTHOR: Matveyev, V.V.,

TITLE: Investigation of the kinematic error of hydraulic length measuring instruments

PERIODICAL: Izmeritel'naya tekhnika, no.10, 1961, 11-14

TEXT: The investigation was prompted by the renewed interest in hydraulic length measuring instruments, both in the USSR and abroad. The principle of such an instrument is shown in Fig.1a. It consists in transferring the movement of the measuring rod with a piston, rigidly attached to its end, through a liquid contained in a chamber to a column of the same liquid in the measuring tube. The ratio K of the respective distances: h (displacement of the liquid in the tube) to s (displacement of the rod) is equal to the ratio of the squares of the diameters: D_K of the chamber and d_T of the liquid column. If, however, as in the case of actual instruments, the piston does not fill completely the cross-section of the chamber but pushes an elastic membrane, attached to the chamber along its circumference (Fig.1б), the corresponding expression will be:

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$$K = \varphi \frac{d_K^2}{d_T^2} \qquad (2)$$

where φ is a coefficient of deformation of the membrane. Obviously, the kinematic error will occur only if φ is a non-linear function of s. I.Ye. Gorodetskiy (Ref.1: Osnovy tekhnicheskikh izmereniy, Mashgiz, M., 1950 (Fundamentals of Technical Measurements, Mashgiz, Moscow, 1950)) and V.G. Shteyn (Ref.2: Izmeritel'naya tekhnika, 1959, no.12) gave the formula:

$$\varphi = \frac{1}{3}(1 + \rho + \rho^2) \qquad (3)$$

where ρ is the ratio of D_n (diameter of the rigid central part of the piston) to D_K, by regarding the deformed membrane as an approximation to a cone: this gives in the limit ($\rho \rightarrow 0$), $\varphi = 1/3$. On the other hand, in 1948 A.T. Draudin suggested the formula:

$$\varphi = \frac{1}{3}(1 + 2\rho^2) \qquad (4)$$

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Investigation of the kinematic error ...

Neither of these formulae contains s, thereby implying the absence of any kinematic error. Contrariwise, in the description of the Hoffmann's comparator (Ref.4: The Production of Ball and Roller Bearings. Methods Employed by the Hoffmann Manufacturing Co. Ltd., Machinery, v.91, No.2346, 1957, November 1) some kinematic error is assumed in certain cases. In the following theoretical argument a perfectly elastic circular membrane is considered, assuming that it is: (a) fixed along its perimeter in a plane (Fig.2, plane XOY); (b) submitted to stretching by a rigid plane piston moving coaxially at right angles to its own plane and the plane of the perimeter; and (c) that its tension is constant and equal in all directions independent of deformation. Starting from the Poisson equation

$$\frac{\partial^2 z}{\partial x^2} + \frac{\partial^2 z}{\partial y^2} = \frac{p}{T} \qquad (5)$$

and assuming that p, the difference in pressure on both sides, is negligible (T denoting the tension), the author derives the corresponding differential equation in polar coordinates.

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Investigation of the kinematic error...

$$r^2 \frac{\partial^2 z}{\partial r^2} + r \frac{\partial z}{\partial r} + \frac{\partial^2 z}{\partial \theta^2} = 0 \qquad (7)$$

with the limiting conditions: $z(R_2, \theta) = 0$ and $z(R_1, \theta) = s$, as can be seen from Fig. 2. By solving this equation the author obtains the deformation:

$$z = s \ln \frac{r}{R_2} \Big/ \ln \frac{R_1}{R_2} \qquad (9)$$

Next, he finds the volume V of the liquid displaced from the chamber into the tube:

$$V = \frac{2\pi R_2^2 s}{\ln \rho} \left[-\frac{1}{4} - \rho^2 \left(\frac{\ln \rho}{2} - \frac{1}{4} \right) \right] + \pi R_1^2 s \qquad (10)$$

where $\rho = R_1/R_2$. Now φ is equal to the ratio of V to the volume V_0 which would be displaced by a piston of radius R_2. hence after the necessary transformations:

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Investigation of the kinematic error...

$$\varphi = \frac{\rho^2 - 1}{2 \ln \rho} \qquad (11)$$

The above result was obtained on the assumption that there was no difference in pressure on two sides of the membrane, whilst in the actual instruments some extra pressure is always present. If the measuring tube is placed horizontally, it will be constant; if, however, the tube is vertical (which is usual) the excess of pressure varies with the height of the column. This in turn would require a correction for φ (with a constant extra pressure Eq.(11) remains in force, since the corresponding deformation produces a constant additional volume, say V_1). Assuming ρ differing only slightly from unity, the variable additional displaced volume V'' can be computed from the curvature of the membrane, $1/R$, in the axial section only. Using again the Poisson formula and denoting specific weight of the liquid by γ, the author obtains a corrected value of the coefficient of deformation, as follows:

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$$\varphi' = \frac{\varphi}{1 + \frac{1}{3} \cdot \frac{a^3 \gamma D}{T d_T^2}} \qquad (15)$$

where: a = closing chord of the curved part of the section, and D = the distance between the corresponding centres of curvature on both sides of the section. This formula again is independent of s, so that there should be no kinematic error even in the case of a variable pressure on the two sides of the membrane, on the assumptions mentioned above. To check the above theoretical argument an experiment was carried out to establish the relation h = f(s) for two membranes: a rubber one of 0.16 mm thickness, and a metal (nickel) one of 0.048 mm thickness. Displacements were measured by means of an optical indicator, and from the data obtained the values of the ratio K and the coefficient φ were calculated. In one series the quantity h was kept constant, in another it was varied. Special precautions were taken to compensate the tension, as well as to eliminate the temperature

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error (in accordance with the method described by the author elsewhere (in 1955 and 1956). The results have shown that there was no kinematic error at all with the metal membrane, either in the case of a constant height of the liquid column or in the case of a variable one, irrespective of the ratio ρ. In the experiment with a rubber membrane no kinematic error was found for a constant h, but with a variable h there was some nonlinearity found at $\rho = 0.8$, although it was negligible at $\rho = 0.9$ or higher. Below the ratio $\rho = 0.8$ the accuracy of the measurements fell sharply. Comparing the experimentally obtained curves with the theoretical ones at a constant h the best agreement was found between the former and those based on Draudin's formula, and as regards a variable height of the liquid column the experimental results agreed well with the theoretical considerations given above. Generally the experiments have shown that there is no kinematic error at constant pressure and with varying pressure φ is smaller than that at a constant pressure and falls sharply with decreasing ratio ρ. The author concludes that in order to eliminate the kinematic error in hydraulic length measuring

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instruments and to increase the coefficient φ and, therefore, to increase their sensitivity, their construction should ensure that the pressure of the liquid column in the measuring tube should be kept as constant as possible, independently of the position of the measuring rod.

There are 4 figures and 6 references: 5 Soviet-bloc and the following English language reference:

Ref.4: The Production of Ball and Roller Bearings. Methods Employed by the Hoffmann Manufacturing Co. Ltd., Machinery, v.91, No.2345, 1957, November 1.

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

ACCESSION NR: AT4040401 S/0000/63/000/000/0234/0241

AUTHOR: Matveyev, V. V.

TITLE: Studies on the effects of design parameters of blade mountings on the damping of turbine blade vibrations

SOURCE: Nauchno-tekhnicheskoye soveshchaniye po voprosam kolebaniy s uchetom rasseyaniya energii. 4th, 1962. Rasseyaniye energii pri kolebaniyakh uprigikh sistem (Energy dissipation during vibrations of elastic systems); trudy* soveshchaniya. Kiev, Izd-vo UkrSSR, 1963, 234-241

TOPIC TAGS: turbine, turbine blade, blade mounting design, design damping property, blade vibration tester, contact surface friction coefficient, turbine blade mounting, turbine blade vibration

ABSTRACT: The report describes a stationary assembly (see Fig. 1 in the Enclosure) built at the Institut metallokeramiki i spetsial'ny*kh splavov AN USSR (Metalloceramics and Special Alloys Institute) which makes possible studies of the damping properties of various

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ACCESSION NR: AT4040401

turbine blade mountings with simulation of force and heat factors approximating real conditions, as well as minimal and determinable losses of energy to the outside. Initial tests were made with the disk and blade elements illustrated (see Fig. 2 in the Enclosure). Results are plotted in the form of graphs relating the logarithmic vibration decrement or the mounting's damping properties to design factors. It is concluded that the damping properties of a mounting design are significantly affected by the coefficient of friction on the lug contact surface. (see Fig. 3 in the Enclosure). Orig. art. has: 10 figures.

ASSOCIATION: none

SUBMITTED: 23Nov63 DATE ACQ: 28May64 ENCL: 03

SUB CODE: PR NO REF SOV: 002 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

KOLPAKOV, D.I.; MATVEYEV, V.V.

Effect of errors in the shape of a surface on the precision in measuring the radius of an arc profile. Izm.tekh. no.3: 10-11 Mr '63. (MIRA 16:4)
(Curves on surfaces—Measurement)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

ACCESSION NR: AT4040400 S/0000/63/000/000/0226/0233

AUTHOR: Kozlov, I.A.; Matveyev, V.V.

TITLE: Structural dissipation of energy during turbine blade vibrations

SOURCE: Nauchno-tekhnicheskoye soveshchaniye po voprosam kolebaniy s uchetom rasseyaniya energii. 4th, 1962. Rasseyaniye energii pri kolebaniyakh uprigikh sistem (Energy dissipation during vibrations of elastic systems); trudy* soveshchaniya. Kiev, Izd-vo AN UkrSSR, 1963, 226-233.

TOPIC TAGS: turbine, marine turbine, aircraft turbine, variable speed turbine, turbine blade design, blade mounting design, turbine blade vibration, blade mounting damping property, vibration damping tester, energy dissipation, turbine blade

ABSTRACT: The article presents a brief description of an assembly built at the Institut metallokeramiki i spetsial'ny*kh splavov AN USSR (Metalloceramics and Special Alloys Institute) to study turbine blade vibration damping on actual turbine disks in a centrifugal force field and at high or normal temperatures. The equipment (see Fig. 1 in the Enclosure) is based on an acceleration stand powered by a 46.5 kw d.c. motor and incorporates an MPO-2

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oscillograph. A brief explanation is given of the operating procedure and the concept of a logarithmic damping decrement. The vibrograms of freely damping vibrations of rotating turbine blades which are obtained in this way make it possible to determine the dependence of this damping decrement on centrifugal force and the amplitude of stresses arising in a blade as related to various designs of turbine blade mountings. Orig. art. has: 6 figures.

ASSOCIATION: none

SUBMITTED: 23Nov63	DATE ACQ: 28May64	ENCL: 01
SUB CODE: PR	NO REF SOV: 011	OTHER: 003

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

L 32062-66 EWT(m)/T IJP(c)
ACC NR: AR6016157 SOURCE CODE: UR/0058/65/000/011/A045/A045

AUTHOR: Matveyev, V. V.; Sel'dyakov, Yu. P.

TITLE: Use of semiconductor detectors for nuclear radiation in commercially produced apparatus

SOURCE: Ref. zh. Fizika, Abs. 11A390

REF SOURCE: Tr. Soyuzn. n.-i. in-ta priborostr., vyp. 1, 1964, 14-22

TOPIC TAGS: radiation detector, semiconductor device, dosimetry, radiometry, electronic equipment

ABSTRACT: The authors present a brief review of specific characteristics of semiconductor detectors (SD) for nuclear radiation. Some of the most frequent applications of SD for purposes of dosimetry, radiometry, and spectrometry of nuclear radiation are described. It is noted that in many scientific research laboratories in the SSSR work is being done on the development and preparation for commpercial production of SD of different types. A tendency is already observed at present to use different designs of SD, and these designs depend in turn on the dimensions of the sensitive area of the SD. It is emphasized in this connection that it is essential to standardize the SD with respect to design, rated dimensions, marking of the lectric and spectrometric parameters, and introduction of unified methods of determining these parameters. Possible ways of standardizing the SD are considered. It is noted further that the extensive use of SD in experimental and nuclear physics and industry is made possible

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by availability of commercially produced suitable electronic apparatus needed for the amplification and processing of the pulse received from the SD. The developed electronic apparatus also is in need of standardization. L. S. [Translation of abstract]

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

KOLPAKOV, D.I.; MATVEYEV, V.V.

New method for measuring the groove radius of ball bearing rings. Izm. tekh. no.3:16-17 Mr '64 (MIRA 17:8)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

KOZLOV, I.A., kand.tekhn.nauk; BAZHENOV, V.G., inzh.; LEBEDEV, I.V., inzh.; MATVEYEV, V.V., inzh.

Effect of stress concentrators on the strength of rotating discs. Energomashinostroenie 10 no.1:35-37 Ja '64. (MIRA 17:4)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

BRITSYN, K.I.; VOLKOV, B.A.; MATVEYEV, V.V.; OMELNOV, A.A.

Effect of an electric field on the position of the optical absorption "edge" in polycrystalline CdS films. Fiz. tver. tela 7 no.8:2536-2538 Ag '65. (MIRA 18:8)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

VOL'NOV, I.I.; MATVEYEV, V.V.

Synthesis of cesium ozonide via cesium superoxide. Izv. AN SSSR. Otd.khim.nauk no.6:1136-1139 Je '63. (MIRA 16:7)

1. Institut obshchey i neorganicheskoy khimii imeni Kurnakova AN SSSR.

(Ozonides) (Cesium oxides)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

MATVEYEV, V. V.

"Soobshcheniya rannikh arabskikh avtorov o narodakh bantu ('malik az-zinaz..'--'tsari zindzhey'--v arabskikh istochnikakh IX-X vv)."

report submitted for 7th Intl Cong, Anthropological & Ethnological Sciences, Moscow, 3-10 Aug 64.

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

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ACCESSION NR: AR4021746 S/0285/64/000/002/0016/0017

SOURCE: RZh. Turbostroyeniye, Abs. 2.49.103

AUTHOR: Matveyev, V. V.

TITLE: Damping of turbine vane oscillations

CITED SOURCE: Tr. Kiyevsk. politekhn. in-ta, v. 37, 1962, 138-145

TOPIC TAGS: oscillation testing unit, turbine vanes, vane oscillation damping, turbine discs, testing acceleration stand

TRANSLATION: A method employed for an experimental investigation of the damping of lock-jointed turbine vane oscillations in a field of centrifugal forces is described. The unit used for this purpose was made in accordance with the acceleration stand of the Strength of Materials division of the IMSS of the Academy of Sciences USSR. The actual disc of a turbine is attached to the operating shaft by brackets. It is located within a jacket in the reinforced concrete chamber of the stand. Mounted on the disc together with the shank under study are 3 or 6 real vanes placed respectively at angles of 120 or 60°. Idle vanes

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of shorter length but having a suitable mass can be inserted into the adjacent slots in order to eliminate the pliancy effect of the disc protrusions and to take care of the effect of the centrifugal loads on the adjacent vanes. It is mandatory for investigations performed under high temperatures. The oscillations of the vanes are recorded by a MPO-2 8-loop oscillograph which receives the signals from wire resistance-pickups running through a 12-channel UTSI-12/35 strain-gauge unit. The pickups are glued to both the vane and the disc and are connected to the measuring circuit through a 20-contact RT-1 mercury current-collector. The rpm of the disc with its vanes is determined by an ICh-6 frequency-meter in accordance with the frequency of the alternating current which appears in the coils rigidly secured around the operating shaft, when the magnetic ring attached on the shaft is revolving. When the investigation covers the damping ability of a lock-joint under high temperatures, into the jacket of the disc is mounted a sectional electric heater in which the temperature of each section is regulated independently to provide for a definite temperature-drop over the radius of the disc. The temperature is measured with the aid of a thermocouple soldered to the disc and the vanes and brought out through a mercury current-collector to the potentiometer. Free damped oscillations for the rotating vanes

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are obtained by the action of a single momentary impulse resulting from a rifle shot fired at the end of the vane in a direction opposite to its rotation. The magnitude of the exciting impulse is controlled depending on the rpm of the disc by the weight of the bullet and of the powder charge in the capsule. The firing against the vane is triggered electrically with the aid of an electrical starter whose timing is automatically controlled by the contacts of the oscillograph. The obtained vibrograms of the free damped oscillations of the vanes taking place during the rotation of the disc make it possible to determine the dependence of the logarithmic decrement of the damping on the magnitude of the contrifugal force, on the stress amplitude, on the structural and technological parameters of the lockjoint, mechanical ani physical features of the contracting couples, on the materials, and on the temperature. There are 4 illustrations and a bibliography of 9 titles. V. Borovinskiy.

DATE ACQ: 05Mar64 SUB CODE: MD, PR ENCL: 00

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

MATVEYEV, V.V.

New designs of hydraulic length meters. Izm.tekh. no.6:12-14 Je '64.
(MIRA 17:12)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

MATVEYEV, V. V. and AVILOV, A. A. and KIRSANOVA, Z. V.

"Methods of Testing the Wear of Leather Substitutes Made from Textiles," Legkaya Prom., 1, No.4, pp 34-7, 1941. Chem. Zentr. 1943, II, 1344.-

Various known testing devices yielded unsatisfactory results. A new app. is described.

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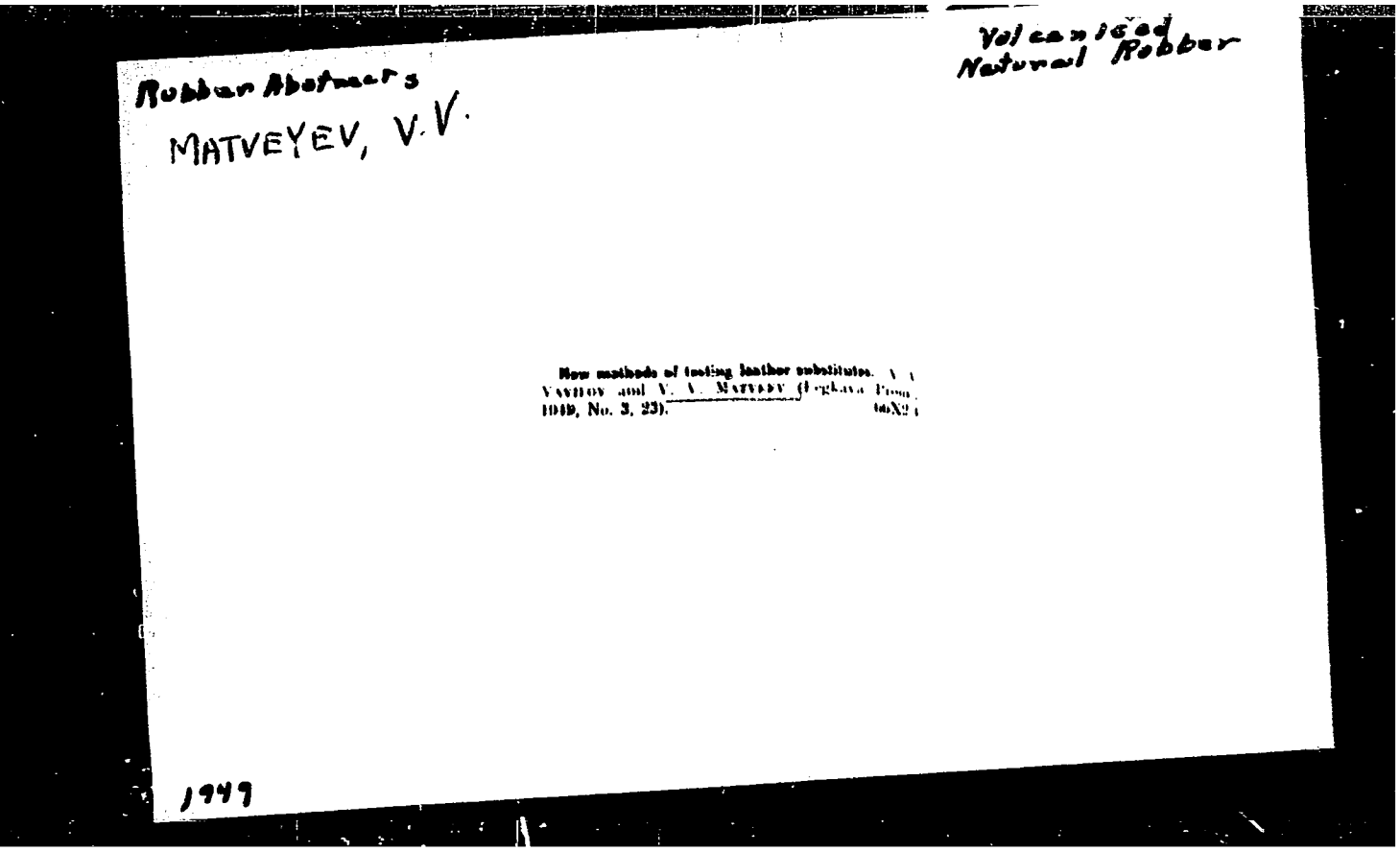

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MATVEYEV, V.V.

Automatizing the vulcanization process for rubber footwear soles.
Leg.prom.17 no.3:20-22 Mr '57. (MLRA 10:4)
(Vulcanization) (Automatic control)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

PHASE I BOOK EXPLOITATION SOV/4208

Matveyev, Viktor Vasil'yevich, and Anatoliy Aleksandrovich Naumov

Press-poluavtomat MPS dlya vulkanizatsii rezinovykh detaley (The MPS Semi-automatic Press for Vulcanization of Rubber Parts) Moscow, Gizlegprom, 1958. 106 p. (Series: Novoye otechestvennoye oborudovaniye) 1,500 copies printed.

Reviewer: B. A. Safray, Candidate of Technical Sciences; Ed.: A. I. Guseva; Tech. Ed.: L. Ya. Medvedev.

PURPOSE: This booklet is intended for engineers and technicians in the synthetic leather, rubber, and plastics industries.

COVERAGE: In the booklet problems in the construction, assembly, and maintenance of the MPS semiautomatic press manufactured by the Orlovskiy machine-building plant imeni Medvedev for forming and vulcanizing rubber and plastic articles are discussed. Causes of breakdown and ways of correcting them are analyzed. Variations in the design of the press mold for different forming operations are given. In the appendix data on bearings, chain and belt drives, steam and

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hydraulic equipment, specifications of units and parts, and diagrams of spare parts are presented. The press was designed by V. V. Matveyev, A. P. Pisarenko, Yu. A. Smetkin, and V. I. Alekseyenko, of the Tsentral'nyy nauchno-issledovatel'skiy institut zameniteley kozhi (Central Scientific Research Institute for Leather Substitutes). No references are given.

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

MATVEYEV, V V.

SOV/138-58-12-6/17

AUTHORS: V.V. Matveyev, A.P. Pisarenko, B.I. Alekseyenko

TITLE: Semi-Automatic Presses Type "MPS" and "MPA" for Vulcanisation of Rubber Components (Press-poluavtomat "MPS" i "MPA" dlya vulkanizatsii rezinovykh izdeliy)

PERIODICAL: Kauchuk i Rezina, 1958, Nr 12, pp 17-21 (USSR)

ABSTRACT: The article illustrates and describes an 18 press-station turntable machine for moulding components such as rubber soles. The MPA machine is an improved version of the earlier MPS machine designed by the authors at the "Institute of Artificial Leather" and built by the Medvedev factory at Orel. The 18 mould plattens are heated by steam with pressure up to 175 psi available; the area of the heated plattens is 510 x 345 mm. Pressure is applied hydraulically, and two-stage pressure is available for dealing with micro-porous material. Maximum available pressure on the plattens is 80,000 Kg. The speed of the turntable can be controlled between 4 and 15 revolutions per hour giving vulcanization cycles from 4 to 16 minutes. Vulcanizing time, temperature, and pressure are all automatically

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

Semi-Automatic Presses Type 'MPS' and 'MPA' for Vulcanization of Rubber Components

controlled. The moulds are loaded and unloaded at one station (seen on the left hand side of the sectional diagram in Fig 2). At this station a cam operates the valves in the distribution box below each of the moulding presses, the top platten is raised, and the mould withdrawn in a radial direction by a hydraulic ram. A feature of the machine is the multiplication of hydraulic pressure by differential areas of the rams of the presses, so that some stations working at low pressure can provide a high pressure supply for other stations. This automatic plant mechanizes 10 of the 12 operations normally carried out by hand in conventional moulding plant, gives a much more consistent product, higher

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SOV/138-58-12-6/17

Semi-Automatic Presses Type 'MPS' and 'MPA' for Vulcanization of Rubber Components

output (2½ times conventional output per man-hour moulding micro-porous soles), and economizes floor space.

There are 2 figures and 16 references (10 Soviet, 6 English)

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennoy kozhi (All-Union Scientific Research Institute of Artificial Leather)

Card 3/3

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

FEOKTISTOV, V.N.; LANEYEVA, N.S.; MATVEYEV, V.V.; RYVKIN, S.B.

Recent developments in testing shoe materials for multiple bending. Kozh.-obuv. prom. no.5:24-27 My '59. (MIRA 12:6)
(Boots and shoes--Testing)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

KUZ'MINA, N.G.; FEOKTISTOV, V.N.; MATVEYEV, V.V.; STERLIGOV, I.N.; RYVKIN, S.B.

New developments in testing oil cloth and bookbinding materials. Kozh.-obuv.prom. no.12:19-23 D '59. (MIRA 13:5)
(Leather substitutes--Testing)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

KALININA, L. Ye.; MATVEYEV, V.V.; RYZHOV, S.S.

New method for making pickers for looms. Kozh.-obuv.prom. 2 no.1:20-21 Ja '60. (MIRA 13:5)
(Pickers (Weaving))

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

KALININA, L.Ye., kand.tekhn.nauk; MATVEYEV, V.V., inzh.; RYZHOV, S.S., inzh.

New type of artificial leather for the pickers of automatic looms. Nauch.-issl.trudy VNIIPIK no.12:35-40 '60. (MIRA 16:2)
(Rubberized fabrics) (Pickers (Weaving))

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

MATVEYEV, V.V., inzh.; LUSHNIKOV, A.M., kand.tekhn.nauk; Prinimali uchastiye: KOVALEV, A.I.; PETROV, V.I.

Instruments for the automatic control of the viscosity and level of liquids in the manufacture of artificial leather. Nauch.-issl.trudy VNIIPIK no.12:95-104 '60. (MIRA 16:2)

1. Laboratoriya avtomatiki Vsesoyuznogo nauchno-issledovatel'skogo instituta plenochnykh materialov i iskusstvennoy kozhi (for Petrov).

(Automatic control) (Viscosimeter) (Liquid level indicators)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

L 24463-66 EWT(m)/EWP(w)/EWP(f)/EPF(n)-2/EWP(v)/I/EWP(j)/EWP(k)/ETC(m)-6 IJP(c)
ACC NR: AT6008676 WW/EM/GS/JK(N)(CZ)/RM SOURCE CODE: UR/0000/65/000/000/0311/0316

AUTHORS: Balyuk, A. D. (Kiev); Bazhenov, V. G. (Kiev); Kozlov, I. A. (Kiev); Matveyev, V. V. (Kiev)

ORG: none

TITLE: On the investigation of vibration damping of turbine blades on rotating disks at high temperatures

SOURCE: Vsesoyuznoye soveshchaniye po voprosam staticheskoy i dinamicheskoy prochnosti materialov i konstruktsionnykh elementov pri vysokikh i nizkikh temperaturakh, 3d, Termoprochnost' materialov i konstruktsionnykh elementov (Thermal strength of materials and construction elements); materialy soveshchaniya. Kiev, Naukova dumka, 1965, 311-316

TOPIC TAGS: turbine blade, turbine rotor, vibration damping, vibration stress, high temperature effect

ABSTRACT: The experimental apparatus used for studying the damping of turbine blades on rotating disks at high temperatures is described. The disks are mounted on an acceleration stand, as suggested by G. S. Pisarenko, and I. A. Kozlov (O nesushchey sposobnosti bystrovrashchayushchikhsya diskov, Ukrgostekhizdat, 1962), which has a special electronic speed indicator-regulator and which can be heated to 870--970K before starting the test. The damping curves are obtained on an N-102 oscillograph

Card 1/2

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

L 24463-66

ACC NR: AT6008676 2

which receives signals from special high-temperature resistance strain gages (heat-treated constantan wire) bonded with B-58 cement. The blades are excited by a bullet from a small caliber gun which can be fired ten times during a run. Circuit diagrams of the speed indicator, gun triggering, and oscillograph triggering circuits are given, and a sample trace of free, damped vibrations of a blade travelling at 300 rad/sec at 570K is presented. Orig. art. has: 5 figures.

SUB CODE: 21, 20/ SUBM DATE: 19Aug65/ ORIG REF: 005/ OTH REF: 001

Card 2/2

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

L 40848-66 EWT(m) JAJ/DJ

ACC NR: AP6010025 SOURCE CODE: UR/0119/66/000/003/0016/0016

AUTHOR: Lebedev, A. A. (Candidate of technical sciences); Matveyev, V. V. (Candidate of technical sciences)

ORG: none

TITLE: The stabilization of liquid pressure in closed containers

SOURCE: Priborostroyeniye, no. 3, 1965, 16

TOPIC TAGS: fluid pressure, pressure compensator

ABSTRACT: Because of the large expansion coefficient of liquids (as compared with the material of containers) there appear specific difficulties in the design of various kinds of equipment involving liquid components. The existing temperature compensators usually involve hard to get materials and, consequently, the authors developed at the Institute of Problems of Materials, AN UkrSSR (Institut problem materialovedeniya AN UkrSSR) a small device, shown in Fig. 1, for the reliable maintainance of a specified pressure of liquids in closed containers during temperature changes. Orig. art. has: 10 formulas and 1 figure.

UDC: 681.2.088:536.41

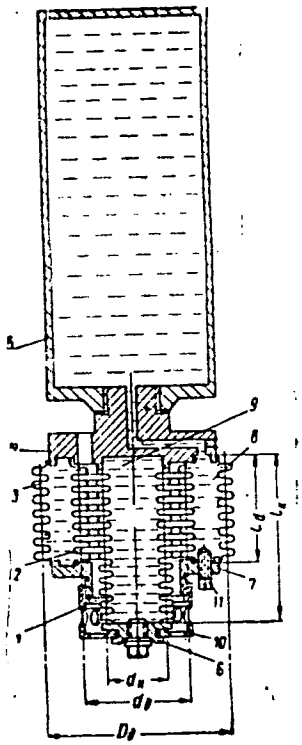
Card 1/2

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

L 40842-66
ACC NR: AP6010025

Fig. 1 Temperature pressure compensator.
1, 2, 3 - concentrically mounter sylphon bellows; 4 - fitting; 5 - container body; 6, 7 - dampers; 8, 9 - cavities; 10 - cap; 11 - control screw.



SUB CODE: 14/ SUBM DATE: none/ ORIG REF: 002

Card 2/2 MLP

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

L 07564-67 EWT(m)/EWP(w)/EWP(t)/ETI/EWP(k) IJP(c) JD/WW/EM/GD

ACC NR: AT6029368 SOURCE CODE: UR/0000/66/000/000/0149/0157

AUTHOR: Yakovlev, A. P. (Kiev); Kashtalyan, Yu. A. (Kiev); Rzhavin, L. N. (Kiev); Matveyev, V. V. (Kiev)

63
B+1

ORG: none

TITLE: Investigation of the damping properties of some turbine blade materials at high temperatures

SOURCE: AN UkrSSR. Institut problem materialovedeniya. Rasseyaniye energii pri kolebaniyakh uprugikh sistem (Energy dissipation during vibrations of elastic systems). Kiev, Naukova dumka, 1966, 149-157

TOPIC TAGS: vibration damping, turbine blade, alloy steel

ABSTRACT: The article presents the results of an investigation of the damping properties of alloys Kh17N2, DI-1, and DI-5, which are used for fabrication of compressor blades in turbine equipment. The experiments were made with transverse vibrations due to pure bending, under conditions of normal and high temperatures (up to 523°K). The chemical composition of the experimental materials is given in a table. The samples were in the following states: a) the raw material; b) preparation by Technique A (heating with forging up to t = 1423 ± 50°K with cooling in air; subsequent heating with mechanical working up to t = 1123 ± 50°K with cooling in air;

Card 1/2

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

L 07564-67
ACC NR: AT6029368

and, heating to t = 953°K, holding for not less than 1 hour, and cooling in air; c) preparation by Technique B (heating with forging up to t = 1423 ± 50°K with cooling in air, and subsequent heating with mechanical treatment up to t = 953°C, holding for not less than 1 hour, cooling in air). The vibrational and heating systems are shown in a figure and experimental results are shown in a series of curves. General conclusions are: 1) out of the three alloys tested in the temperature range up to 523°K, only alloy DI-5 exhibited a large value of the logarithmic damping decrement, exceeding by 4-5 times the value of the decrement for construction steels; 2) treatment of the samples by Techniques A and B lowers considerably the value of the logarithmic damping decrement; 3) the damping capacity of alloys DI-1 and Kh17N2 is much weaker. The magnitude of the logarithmic decrement for these alloys is practically identical, but in its absolute value is much less than for construction carbon steels; 4) thus, from the point of view of damping properties, alloy DI-5 is preferable. Orig. art. has: 1 formula, 5 figures and 1 table.

SUB CODE: 11, 20/ SUBM DATE: 22Feb66/ ORIG REF: 002
10, 21/

Card 2/2 nst

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

MATVEYEV, Vladimir Vasil'yevich; POSTNIKOVA, I.V., red.

[Frames of farm tractors] Shassi sel'skokhoziaistvennykh traktorov. Kuibyshev, Kuibyshevskoe knizhnoe izd-vo, 1963. 79 p. (MIRA 18:2)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

MATVEYEV, V.Ye.; LISIN, D.M.

Calcined iron coke briquets. Trudy Khim.-met.inst.Sib.otd. AN SSSR no.18:118-138 '63. (MIRA 17:4)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

MATVEEV, VASILII EVGRAFOVICH

Planirovanie material'no-tekhnicheskogo obespecheniia zheleznoykh dorog. /_ The planning of material-technical supply of railroads_/. Moskva, Gos. transp. zhel-dor. izd-vo, 1945. 115p.

DLC: HE3136.M8

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress Reference Department, Washington, 1952, Unclassified.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

MATVEEV, Vasiliy Yevrafovich.

RUSSIA (1923- U.S.S.R.)

The mobilization of domestic resources for the railroads. Moskva, Gos. transp. zheleznodorozh. izd-vo, 1945. 26 p. (MC-4564)

TF507.R8 1945

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

MATVEYEV

MATVEYEV, V.Ye., inzhener

Metal economy on railroads of the U.S.A. Tekh.shel.dor6 no.7: 31-32 Jl '47. (MLRA 8:11)
(United States--Railroads)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

MATVEYEV, V.Ye.; PUZYNYA, I.Ye.; VOLIKOV, V.A.; BABKIN, A.P.; CHERNYSHEV, V.I., redaktor; VERINA, G.P., tekhnicheskiy redaktor

[Standardization of the consumption of materials and spare parts in railroad transportation] Normirovanie rashoda materialov i zapasnykh chastei na zheleznodorozhnom transporte. Moskva, Gos. transp. zheldor. izd-vo 1953. 326 p. (MLRA 10:2)
(Railroads--Maintenance and repair)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

MATVEYEV, Vasiliy Yevgrafovich; PUZYNYA, Ivan Yevstaf'yevich; VOLIKOV, Viktor Aleksandrovich; BABKIN, Aleksandr Rodionovich; CHERNYSHEV, V.I., redaktor; VERINA, G.P., tekhnicheskiy redaktor

[Standardizing expenditures for materials and spare parts in railroad transportation] Normirovanie raskhoda materialov i zapasnykh chastei na zheleznodorozhnom transporte. Izd. 2-oe, perer. i dop. Moskva, Gos.transp. zhel-dor. izd-vo, 1957. 463 p. (MLRA 10:9)
(Railroads--Finance)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

MATVEYEV, V.Ye.

Using supports made of "carbon plastics" for the lining of upraise workings. Ugol' 40 no.12:32-34 D '65. (MIRA 18:12)

1. IFKhIMS Sibirskogo otdeleniya AN SSSR.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

(A) L 8505-66 EWT(m)/EWP(j) RM

ACC NR: AP5028484 SOURCE CODE: UR/0286/65/000/020/0065/0065

AUTHOR: Matveyev, V. Ye.

ORG: none

TITLE: A method for obtaining synthetic resins. Class 39, No. 175650

SOURCE: Byulleten' izobretaniy i tovarnykh znakov, no. 20, 1965, 65

TOPIC TAGS: resin, pitch, tar, formaldehyde, phenol, catalyst

ABSTRACT: This Author Certificate presents a method for obtaining synthetic resins (based on semicoke pitch and formaldehyde) by condensing these materials in the presence of an alkaline catalyst. To produce a complete transition of pitch to resin, pitch is first saturated with pure phenols at the temperature of 110-150C. The pure phenols may be introduced in an amount no smaller than 30% of the weight of pitch.

SUB CODE: 07,11/ SUBM DATE: 08Jun64

BVK

Card 1/1 UDC: 678.632'584

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

27725
S/122/61/000/007/007/007
D209/D304

AUTHORS: Zakharov, V.I., Matveyev, V.Ya., Zhustarev, Ye.N., and Freydkin, M.Ya., Engineers

TITLE: The application of ultrasonic vibrations in milling, planing and thread cutting

PERIODICAL: Vestnik mashinostroyeniya, no. 7, 1961, 62 - 65

TEXT: The application of ultrasonic vibrations to milling cutters, drills, etc. is discussed. By subjecting the tool to vibrations of ultrasonic frequencies, cutting can be carried out with greatly reduced effort. A milling machine, type TT-2 (TG-2) is described which is used for carrying out experiments with ultrasonic vibrations applied to the tool. This device is shown in Fig. 1. Here 1 is the magnetic vibrator, 2 - main support, 3 - tool holder 4 - end cutter; the magnetic vibrator is fed through a pair of brushes, 5, from a generator, 7 is an auxiliary support. Experiments were carried out on lead and stainless steel. The unloaded

Card 1/4

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

1100

27725
S/122/61/000/007/007/007
D209/D304

AUTHORS: Zakharov, V.I., Matveyev, V.Ya., Zhustarev, Ye.N., and Freydkin, M.Ya., Engineers

TITLE: The application of ultrasonic vibrations in milling, planing and thread cutting

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Card 1/4

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

The application of ultrasonic ...

amplitude of the vibrations was 20 - 25 μ. Special emphasis was laid on the cooling of the tool and vibrator necessitated by the high speed used. Thread cutting was carried out using lead, stainless steel and highly heat resistant alloys. The taps used were made of P18 (R1C) steel with diameters ranging from 10 to 20 mm. For normal cutting the applied torque is the sum of the frictional and cutting torque. With ultrasonic vibrations of the tool 35 % of the input torque is taken up by friction when using standard taps of tempered steel. A comparison is given in tubulated form between the power required for cutting with and without ultrasonic vibrations of the tool along its cutting edge. When using tap M18 x 1.5 for cutting the thread in a heat resistant alloy at 25 rev/ min., a reduction of 38 % in the applied torque results by the use of ultrasonic vibrations. In this case the resonance amplitude is less than 20 μ. Examination of the threads in accordance with the specification laid down on GOST 9253-59 (GOST 9253-59) showed first-class results. Experiments carried out on drills showed little or no improvement, the reason being that the vibrations

Card 2/4

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

The application of ultrasonic ...

were not directed along the cutting edge of the drill. The authors make the following conclusions: 1) The use of ultrasonic vibrations greatly reduces the cutting force, especially in the case of hard materials. 2) The vibrations must be directed along the cutting edge of the tool. 3) The tool must have the requisite geometry for successful use under vibrations of ultrasonic frequencies. 4) The reduction in cutting force requires less rigid machines. There are 3 figures, 2 tables and 2 Soviet-bloc references.

Card 3/4

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

MATVEYEV, Ye.; YUROV, K.

Provide higher-grade milling equipment. Muk.-elev.prom. 23 no.7:32 Jl '57. (MLRA 10:9)

1. Ivanovskoye oblastnoye upravleniya khleboproduktov (for Matveyev).
2. Aleyskaya mel'nitsa No.14 (for Yurov).

(Grain-milling machinery)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

MATVEYEV, Ye., inzh.

On the credit advanced by the State Bank. Muk.-elev. prom. 24 no.1:29 Ja '58. (MIRA 11:2)

1. Ivanovskoye oblastnoye upravleniye khleboproduktov.
(Ivanovo Province--Grain elevators)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

MATVEYEV, Ye. A.

PA 25/49T67

USSR/Medicine -- Esophagus, Spasm Oct 48
Medicine -- Case Records

"Two Cases of Spasm of the Esophagus," M. F. Bogatyrev, Ye. A. Matveyev, 1 p

"Sov Med" No 10

Authors discuss two case histories, and suggest that other physicians confronted with similar problems benefit by this experience.

25/49T67

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

GOLOVKO, Viktor Kazimirovich; MATVEYEV, Ye.A., red.

[The Kama; an economic and geographical outline] Kama; ekonomiko-geograficheskii ocherk. Izhevsk, Udmurtiia, 1965. 123 p. (MIRA 19:1)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

BAGIR-ZADE, F.M.; MATVEYEV, Ye.I.

Formation of oil pools in the Gyurgyany-More field. Azerb. neft. khoz. 41 no.9:5-9 S '62. (MIRA 16:6)

(Gyurgyany-More region—Petroleum geology)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

MATVEYEV, Ye. A.

"Hydraulic Calculation and Investigation of the Operating Process of an Emulsion Carburetor." Sub 4 Jun 51, Moscow Order of the Labor Red Banner Higher Technical School imeni Baumen

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

MATVEYEV, Ye.I.

Methods for improving the quality of chemical reagents. Neft. khoz.35 no.3:14-16 Mr '57. (MLRA 10:4)
(Oil well drilling fluids)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

PANAKHOV, N.A.; MATVEYEV, Ye.I.

Practice of controlling sand in wells in the Severnaya Sklanka-More area. Azerb. neft. khoz. 39 no.12:34-36 D '59. (MIRA 14:9)

(Artem Island region--Sand)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

YAKUBOV, A.A.; KHARITONOV, M.F.; MATVEYEV, Ye.I.

Method for processing temperature measurements of wells. Izv.vys. ucheb.zav.; neft' i gaz 5 no.3:3-9 '62. (MIRA 17:3)

1. Azerbaydzhanskiy institut nefti i khimii im. M.Azizbehova.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

REYKHMAN, I.R.; MATVEYEV, Ye.I.; KERIMOV, B.M.

Certain types of pools in the Absheron Archipelago. Izv. vys. ucheb. zav.; neft' i gaz 7 no.7:3-8 '64.

(MIRA 17:9)

1. Azerbaydzhanskiy institut nefti i khimii im. M. Azizbekova.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

S/032/61/027/003/022/025
B101/B203

9.6000 (1040, 1089, 1331)

AUTHORS: Matveyev, Ye. L. and Moshkovskiy, Yu. Sh.

TITLE: A recorder for the ИКС-11 (IKS-11) infrared spectrometer

PERIODICAL: Zavodskaya laboratoriya, v. 27, no. 3, 1961, 355-356

TEXT: Other researchers had suggested to improve the recording of the IKS-11 spectrometer with the use of an ЭПП-09 (EPP-09) recorder. To tune the output of the ФЭОУ-15 (FEOU-15) photoelectrooptical amplifier with the input of the EPP-09, a cathode follower is required whose tuning may meet with difficulties. To avoid this, the IKS-11 was connected with an ЭППВ-51 (EPPV-51) recorder having a high ohmic resistance. Fig. 1 shows the circuit. To increase the output resistance of the FEOU-15, the silver sulfide photocells were replaced by ЦГ-3 (TsG-3) gas-filled photocells; photocells with about the same dark resistance were chosen. As the propagation time of the pen carriage of the EPPV-51 was too long (30-40 sec), it was reduced to 2-5 sec by modifying the gearing of the РД-9 (RD-9) reversible motor. Two 1.5 v batteries for the zero creep of the EPPV-51 were attached to the bottom of the FEOU-15. The rheostat

Card 1/3

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B101/B203

A recorder for the...

resistance for the readjustment was replaced by the variable СП-1 (SP-1) resistors, 10 kohms. A БАС-70 (BAS-70) battery was used to feed the photocells. SP-1, SP-2, or constant ВС (VS) resistors were used. The stability of the circuit depends mainly on the stability of the glow temperature of the lamp of the FEOU-15. Good stability with a maximum zero creep of 2-4 graduations per hr was attained by feeding the lamp with four storage batteries connected in parallel. There are 2 figures and 1 Soviet-bloc reference.

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics, Academy of Sciences USSR)

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A recorder for the...

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Legend to Fig. 1: a) 200 v; b) $1 \cdot 10^9$ ohms; c) megohms; d) kohms; e) zero creep.

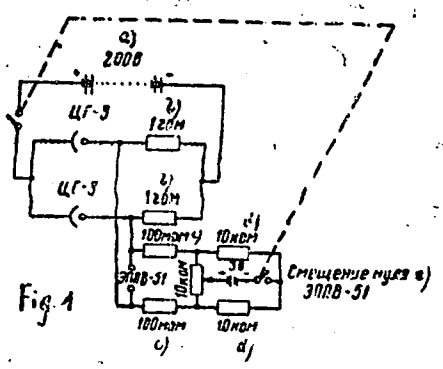

Fig. 1

Fig 1

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

LYUBIMOV, A.N.; VARENIK, A.F.; ZIMINA, K.I.; MATVEYEV, Ye.L.; MALAKHAYEV, Ye.M.

Method for finding the optimum location for the magnet of a nuclear magnetic resonance spectrometer of high resolving power. Zav. lab. 31 no.8:1023-1025 '65. (MIRA 18:9)

1. Nauchno-issledovatel'skiy institut po pererabotke nefti.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

MATVEYEV, Ye.L.; POLYAKOVA, A.A.; KHMEL'NITSKIY, R.A.; MEDVEDEV, R.A

Modification of the recording unit of an MKh1303 mass spectrometer. Prib. i tekh.eksp. 10 no.5:172-174 S-O '65. (MIRA 19:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftepererabatyvayushchey promyshlennosti, Moskva.

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

L 01306-67
ACC NR: AP5027029 SOURCE CODE: UR/0120/65/000/005/0172/0174

AUTHOR: Matveyev, Ye. L.; Polyakova, A. A.; Khmel'nitskiy, R. A.; Medvedev, F. A.

ORG: VNII of the Petroleum Processing Industry, Moscow (VNII neftepererabatyvayushchey promyshlennosti)

TITLE: Modification of the recording device of the MKh1303 mass-spectrometer

SOURCE: Pribory i tekhnika eksperimenta, no. 5, 1965, 172-174

TOPIC TAGS: mass spectrometer, oscillograph, circuit design/MKh1303 mass spectrometer, N-700 oscillograph

ABSTRACT: In order to reduce the time of recording, the regular EPP-09 recorder of the MKh1303 mass spectrometer was replaced by the N-700 oscillograph, which permits the recording of signals by 14 galvanometers of various sensitivities. The voltage range of measurements is from 0.005 to 50 v. An overcurrent protection was provided for each galvanometer circuit. A circuit arrangement of six M001lA galvanometers is schematically illustrated. The galvanometers operate within the 0—40 cps range with a maximum permissible current of 0.3 ma. The current sensitivity is about 1400 mm/ma-m. By using this method, it took only 18 min to obtain the mass spectra for molecular numbers of 50 to 400 under optimum operating conditions of the device. Orig. art. has: 3 figures.

SUB CODE: 07/4/ SUBM DATE: 18Aug64/

Card 1/2

UDC: 621.384.8

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

MATVEYEV, Ye. N.

"Marine Electrical Engineering" (Sudovaya elektrotekhnika). Izdatel'stvo "Morskoy transport" ("Marine Transport" Publishing House), 456 pp., 1947

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

MATVEEV, Evgeniy Nikolayevich.

Electrical engineering on ships. 5., perer. i dop. izd. Moskva, Morskoi transport, 1952. 464 p. (54-17464)

VM471.M3

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

MATVEYEV, YE N.

G-2

USSR/Electricity - Dielectrics

Abs Jour : Ref Zhur - Fizika, No 3, 1957, No 6963

Author : Skanavi, G.I., Matveyev, Yo. N.
Inst : Physical Institute, Academy of Sciences, USSR, Moscow
Title : New Dielectrics with Very Dielectric Constant and Low Conductivity, Having No Ferroelectric Properties.

Orig Pub : Zh. eksperim. i teor. fiziki, 1956, 30, No 6, 1047- 1051

Abstract : Introducing bismuth ions (adding bismuth trioxide) into strontium titanate results in new dielectrics, having very high and clearly pronounced relaxation polarization. The dielectric constant ε of these substances remains very high (approximately 1,000) all the way to microwave frequencies. Curves are given for the temperature variation of and the tangent of the dielectric loss angle tan δ at various frequencies for one of the new dielectrics. Increasing the frequency shifts the maxima of ε and tan δ towards the high temperatures, which is characteristic for relaxation polarization. In addition, the absence of nonlinearity in the polarization and the independence of ε of the field intensity, as well as the absence of dielectric hysteresis, show that

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USSR/Electricity - Dielectrics G-?

Abs Jour : Ref Zhur - Fizika, No 3, 1957, No 6963

the new dielectrics do not belong to the ferroelectric class. It was observed that the conductivity of strontium-bismuth titanates is relatively very small.

Card : 2/2

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

ANDROSOV, Boris Innokent'yevich; BOGOSLOVSKIY, Andrey Mikhaylovich; MATVEYEV, Yevgeniy Nikolayevich; PECHENENKO, Viktor Ivanovich; SAPRYKIN, Aleksey Petrovich. Prinimali uchastiye: KOVNER, R.I.; PLAKSIONOV, N.P. LUBOCHKIN, B.I., obshchiy red.; ALEKSANDROV, L.A., red.izd-va; TIKHONOVA, Ye.A., tekhn.red.

[Manual for third-class mechanics of marine steamships] Uchebnoe posobie dlia mekhanika III razriada morskikh parovykh sudov. Pod red. B.I.Lubochkina. Izd.2., perer. Moskva, Izd-vo "Morskoi transport," 1958. 646 p. (MIRA 12:7)
(Steamboats) (Marine engineering)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

SUSLIN, Pavel Pavlovich. Prinimali uchastiye: MATVEYEV, Ye.N., kand. tekhn.nauk; FRIK, A.O., inzh., red.; SEMENOVA, S.A., red.izd-va; LAVRENOVA, N.B., tekhn.red.

[Manual for a ship electrician] Posobie dlia sudovogo elektrika. Pod red. A.O.Frika. Izd.3. Moskva, Izd-vo "Morskoi transport," 1959. 373 p. (MIRA 12:11)
(Electricity on ships) (Electric engineering)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

BOGOSLOVSKIY, Andrey Mikhaylovich; ZDANOVICH, Vasiliy Leont'yevich; MATVEYEV, Yevgeniy Nikolayevich; MUMZI, Georgiy Fedorovich; MSHANETSKIY, Boris Antonovich; NIBESNOV, Viktor Ivanovich; NOVIKOV, Georgiy Nikolayevich [deceased]; NUD'GA, Pavel Korneyevich; SAPRYKIN, Aleksey Petrovich; SACHKOVSKIY, Georgiy Semenovich; FRENK, M.TS., obshchiy red.; MELEYEV, A.S., red.; TIKHONOVA, Ye.A., tekhn.red.

[Textbook for engineers on marine internal combustion engines] Uchebnoe posobie dlia mekhanika III razriada po sudovym dvigateliam vnutrennego sgoraniia. Izd.2., perer. Pod obshchei red. M.TS.Frenka. Moskva, Izd-vo "Morskoi transport," 1959. 711 p. (Marine engineering) (MIRA 12:9)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

MATVEYEV, Ye. P.

TARANETS, M.P.; MATVEYEV, Ye.P.; KORABEL'NIKOV, M.B.; PARAMONOV, I.N.

Using organomineral mixtures for potatoes on the "Progress" State Farm. Zemledelie 5 no.4:47-49 Ap '57. (MLRA 10:6)
(Pensa Province--Potatoes) (Fertilizers and manures)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

PARKHOMENKO, Vasiliy Georgiyevich; ARKHANGEL'SKIY, N.A., prof., retsenzent; BULGAKOV, N.V., prof., retsenzent; ZAYTSEV, V.G. (Moskva), kand.tekhn. nauk, retsenzent; SHEKLAKOV, D.M. (Moskva), prepodavatel', retsenzent; PISHCHANSKAYA, B.A. (Odessa), prepodavatel', retsenzent; GUTAN, M.K., prepodavatel', retsenzent; GOL'DIN, A.E., prepodavatel', retsenzent; KHRYPOV, N.N. (Sverdlovsk), prepodavatel', retsenzent; DERYABINA, L.I., prepodavatel', retsenzent; YEMEL'YANOV, D.M. (Leningrad), prepodavatel', retsenzent; GONCHAROVA, L.D. (Simferopol'), prepodavatel', retsenzent; MATVEYEV, Ye.P., prepodavatel', retsenzent; ALEKSEYEV, I.M., prepodavatel', retsenzent; DUDINSKIY, S.L. (Leningrad), prepodavatel', retsenzent; BABUN, V.B. (Khar'kov), kand.tekhn.nauk, retsenzent; CHERNOV, N.V., prof., doktor tekhn.nauk, spetsred.; BORISOVA, G.A., red.; SUDAK, D.M., tekhn.red.

[Introduction to the study of commerial wares] Vvedenie v tovarovedenie promyshlennykh tovarov. Moskva, Gos.izd-vo torg.lit-ry, 1959. 135 p. (MIRA 12:7)

(Commercial products)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

PARKHOMENKO, Vasiliy Georgiyevich; ARKHANGEL'SKIY, N.A., prof., retsenzent; [deceased]; BULGAKOV, N.V., prof., retsenzent; ZAYTSEV, V.G., retsenzent(Moskva); SHEKLAKOV, D.M., prepodavatel' tekhnikumov sovetskoy torgovli, retsenzent(Moskva); KOZLOVA, Z.V., retsenzent (Moskva); PISHCHENSKAYA, B.A., retsenzent (Odessa); GUTAN, M.K., retsenzent; GOL'DIN, A.E., retsenzent; KHRYPOV, N.N., retsenzent(Sverdlovsk); DERYABINA, L.I., retsenzent; YEMEL'YANOV, D.M., retsenzent (Leningrad); GONCHAROVA, L.D., retsenzent(Simferopol'); MATVEYEV, Ye.P., retsenzent; ALEKSEYEV, I.M., retsenzent; DUDINSKIY, S.L., retsenzent(Leningrad); BABUN, V.B., kand. tekhn. nauk, retsenzent(Khar'kov); CHERNOV, N.V., prof., doktor tekhn. nauk, spets. red.; BORISOVA, G.A., red.; GROMOV, A.S., tekhn. red.

[Introduction to a knowledge of manufactured goods]Vvedenie v tovarovedenie promyshlennykh tovarov. Izd.2., dop. i perer. Moskva, Gostorgizdat, 1962. 142 p. (MIRA 16:1)
(Commercial products)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

MATVEYEV, Yu.P.

Investigating the effect of temperature on the process of heat transmission during the low-frequency electrothermal rock breaking method. Fiz.-tekh. probl. razrab. pol. iskop. no.4: 64-65 '65. (MIRA 19:1)

1. Institut radioelektroniki i gornoy elektromekhaniki, Moskva.
Submitted Jan. 12, 1965.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

MATVEYEV, YE. S.

OBHEZKOV, S.S., inzhener; MATVEYEV, Ye.S., inzhener.

On studying the operation of hydraulic structures. Gidr.stroi. 26 no.6:16-20 Je '57. (MLRA 10:7)

(Hydraulic engineering)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

NATVEYEV, Ye.S.

Using centrifuged reinforced concrete pipes in constructing pipe ducts (from "Bauwirtschaft," no.2, Jan. '57). Vod. i san. tekh. no.10:38-39 O '58. (MIRA 11:10)
(Germany, West--Water pipes)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

AVER'YANOVA, A.G., inzh.; MATVEYEV, Ye.S., inzh.

Economic arrangement of powerhouses with horizontal generating units for medium-head hydroelectric power stations.
Gidr. stroi. 30 no.6:9-11 Je '60 (MIRA 13:7)
(Hydroelectric power stations)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

DAMBA, B., inzh.; MATVEYEV, Ye.S., inzh.

Water resources of the rivers of the Mongolian People's Republic and ways to utilize them. Gidr.stroi. 33 no.10:31-37 O '62.
(MIRA 15:12)

1. Upravleniye vodnogo khozyaystva Ministerstva sel'skogo khozyaystva Mongol'skoy Narodnoy Respubliki (for Damba).
2. Upravleniye proyektirovaniya, izyskaniy i issledovaniya dlya stroitel'stva gidrotekhnicheskikh sooruzheniy Ministerstva stroitel'stva elektrostantsiy SSSR (for Matveyev).
(Mongolia—Water resources development)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

AUTHOR: Matveyev, Yu. A. SOV/132-59-1-12/18

TITLE: An Efficient Method of Prevention of Azimuthal Bending of Bore-Holes (Effektivnyy sposob bor'by s azimutal'nym iskrivleniyem skvazhin)

PERIODICAL: Razvedka i okhrana nedr, 1959, Nr 1, pp 48-50 (USSR)

ABSTRACT: To avoid the azimuthal bending of deep bore-holes, the author proposes a periodical (every 30-40 m) change in rotation direction of the core drill. There are one table and one diagram.

ASSOCIATION: TsKB

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

GAGEN-TORN, K.V.; KOTOV, V.V.; MATVEYEV, Yu.A.

Technology of pressure working of a welded pipe bank. Trudy
Giproteavtometobrabotka no.24:223-235 '65. (MIRA 18:11)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

S/262/62/000/006/006/021
I007/I207

AUTHORS: Matveyev, Yu.G., Pinskiy, F.I.

TITLE: Measurements of angular velocities in turbocompressors

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk 42. Silovye ustanovki, no.6, 1962, 31, abstract 42G164. (V sb. "Gazoturbin. nadduv dvigateley vnutr. sgoraniya". M., Mashgiz, 1961, 161-171).

TEXT: The Kolomensk plant designed noncontact induction-transducer gages for the measurement of angular velocities in turbooompressors. In the first stage of experiments the measurements were carried out by means of permanent-magnet transducers and a cathode-ray oscilloscope; the signal frequency on the screen was established by the special circular-sweep method; in the next stage, several types of noncontact electronic tachometers (speedometers) were designed, working on the principle of alternating-to-direct current conversion, the degree of conversion being directly proportional

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Measurements of angular velocities ...

to the a.c. frequency. After several tests, the best tachometer proved to be the T-2 type combined with the ИЧ-6 (I.Ch-6) frequency meter. This tachometer has a basic accuracy of ± 1.5% for an angular-velocity range of 600 to 40,000 r.p.m. Special electronic pulse-counters, termed noncontact electronic tachometers, were designed to check the tachometer indications. These instruments, combined with the induction transducer and a stop watch, permit the determination of the average rotational speed, by direct reading the r.p.m. values for a definite time interval. Since the tachoscope uses electromechanical counters with a maximum counting capacity of 600 r.p.m., the set has been equipped with electronic re-calculation devices. The electronic tachoscope has a reading accuracy of about 0.2% at a speed of 40,000 r.p.m. Rapidly varying velocities can be measured by comparing the frequency of the transducer with a reference generator, according to the readings on the tape of a recording oscilloscope. The same problem may also be solved with the aid of the electronic tachoscope, in which the re-calculating device reduces the pulse number recorded by the

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Measurements of angular velocities ...

oscilloscope. For the simultaneous measurement of angular velocities in four turbocompressors, a special four-channel tachoscope of the ny-4 (PU-4) type has been developed.

[Abstractor's note: Complete translation.]

Card 3/3

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

MATVEYEV, Yu.G.

AID Nr. 990-5 14 June

SINGLE PULSE HIGH-VOLTAGE NANOSECOND GENERATOR (USSR)

Yerozolimskiy, B. G., L. N. Bondarenko, V. P. Prikhod'ko, Yu. A. Mostovoy, A. K. Shevchanko, and Yu. G. Matveyev. Pribory i tekhnika eksperimenta, no. 2, Mar-Apr 1963, 93-97. S/120/63/000/002/022/041

A generator has been developed by the Institute of Nuclear Physics in Novosibirsk for the control of a 100 Mev electron beam in a synchrotron with a diameter of 1 mm.

Card 1/1

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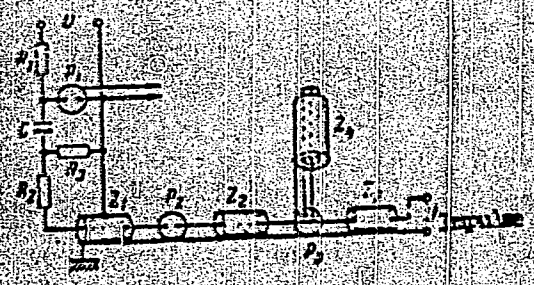
AID Nr. 990-5 14 June

SINGLE PULSE HIGH-VOLTAGE [Cont'd]

S/120/63/000/002/022/041



The generator drives a load of not less than 13 ohm and produces single pulses with an amplitude of 100 kv, a rise time of 1 nanosec, and a duration of 10 to 12 nanosec. The basic advantages of the generator are high speed and overvoltage discharging, with the aid of which the leading edge and the duration of the high-voltage pulse is formed. The operation of the generator is as follows [see illustration]. Capacitor C is charged through resistor R up to a voltage V_0 from a rectifier. At a given moment of time a 6 to 8-kv triggering pulse with a rise time of 0.1 μsec is applied to a gap between the grounded electrode of discharger P_1 and its auxiliary electrode. The main gap of the discharger (filled with nitrogen at a pressure up to 20 atm-gauge) breaks through in 0.1 μsec following the breakthrough of the triggering gap. Capacitor C charges

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SINGLE PULSE HIGH-VOLTAGE [Cont'd] S/120/63/000/002/022/041

the storage line with wave impedance Z_1 up to voltage $V_1 = V_0C/(C + C_1)$, where C_1 is the capacitance of Z_1. Therefore, the voltage of discharger P_2 rises to V_1 during a period of 0.1 to 0.2 μsec, creating the necessary overvoltage. After the breakdown of discharger P_2 along line Z_2 a voltage wave with a rise time of 1 nanosec is propagated. At discharger P_3 the wave is divided and applied to the load through line Z_3. At the same time, it is fed to discharger P_3 through line Z_4, which short-circuits line Z_2 and causes voltage V_2 to drop to zero.

[GS]

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

AD Nr: 995-19 21 June

S/120/63/000/002/022/047

ERRATUM: On page 3 of issue 990 the sentence beginning on line 10 should read as follows: "The basic advantages of the generator are high speed and the use of overvoltage dischargers, by which the leading edge and the duration of high-voltage pulses are formed."

Card 1/1

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010002-1

523.32

AUTHOR: Matveyev, Yu. G.; Suchkin, G. L.; Troitskiy, V. S. 55 55 55

TITLE: Density variations with depth of lunite in the lunar surface layer

SOURCE: Astronomicheskiy zhurnal, v. 42, no. 4, 1965, 810-816

TOPIC TAGS: lunar surface, lunite, lunite density 52,55

ABSTRACT: Comparison of radioastronomical and radar data on the coefficient of reflection of radiowaves from the moon indicates that the coefficient of reflection probably depends on wavelength. This dependence and the differences in the

31 B

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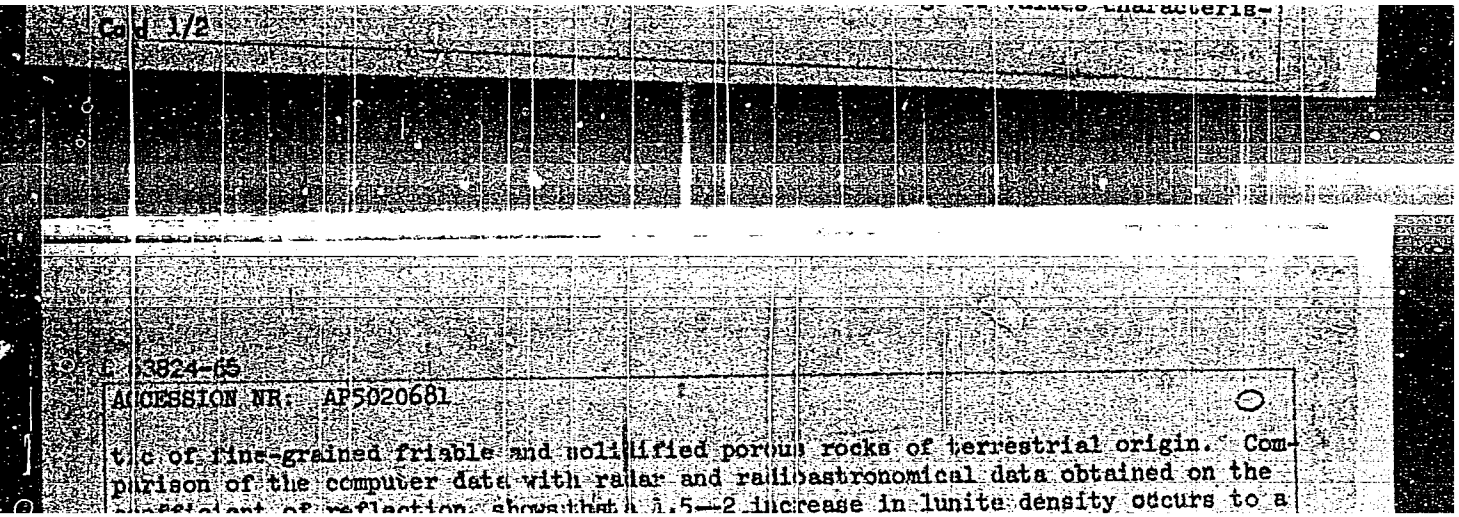

Card 1/2

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ACCESSION NR: AP5020681

t/c of fine-grained friable and nolitified porous rocks of terrestrial origin. Comparison of the computer data with radar and radioastronomical data obtained on the [illegible] of reflection, shows that a 1.5—2 increase in lunite density occurs to a

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1. Serpukhovskiy zavod.
(Rayon)

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